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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,315	02/09/2004	Naoki Kuroda	60188-762	6654
75	7590 02/28/2006		EXAMINER	
Jack Q. Lever, Jr. McDERMOTT, WILL & EMERY 600 Thirteenth Street, N.W. Washington, DC 20005-3096			NGUYEN, HAI L	
			ART UNIT	PAPER NUMBER
			2816	
			DATE MAILED: 02/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/773,315	KURODA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hai L. Nguyen	2816				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state that the period for reply within the set or extended period for reply will, by state that the main the period for reply will, by state that the main the period for the provided by the Office later than three months after the main term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  1.136(a). In no event, however, may a reply be tined will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07</u>	December 2005.					
<del></del>						
3) Since this application is in condition for allow	, <del></del>					
closed in accordance with the practice under	<i>Ex parte Quayle</i> , 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>3,6-35,37 and 38</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,4,5 and 36</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10)⊠ The drawing(s) filed on <u>09 February 2004</u> is/a		ed to by the Examiner.				
Applicant may not request that any objection to the		· · · · · · · · · · · · · · · · · · ·				
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	st of the certified copies not receive	ed.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Paper No(s)/Mail Date						
Paper No(s)/Mail Date						

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### **DETAILED ACTION**

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## Response to Amendment

1. Applicant's amendment filed on 12/07/2005 has been received and entered in the case. As to the prior art rejections to the claims made in the previous Office Action, mailed on 9/07/2005. Applicant's amendments have overcome the rejections, as such; the prior art rejections have been withdrawn. However, Applicant's amendments necessitate new grounds of rejection as set forth below.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 4, 5, and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by Mizuno (US 6,396,323).

With regard to claim 1, Mizuno discloses in Figs. 3-9 a semiconductor device comprising first circuit block and second circuit block (110a & 110b) provided on a single semiconductor chip (100) and including respective functional elements; and a timing adjustment circuit block (111a & 111b) provided on the single semiconductor chip between the first and second circuit

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blocks for adjusting a propagation timing of a transmission signal flowing on a line connecting the first and second circuit blocks to each other.

With regard to claim 2, the semiconductor device further comprises a comparison control circuit (401) for receiving an input signal input to the first circuit block and an output signal output from the second circuit block which has received the transmission signal, comparing the input signal to the output signal, and controlling the timing adjustment circuit block.

With regard to claim 4, the reference also meets the recited limitations in the claim.

With regard to claim 5, the semiconductor device further comprises an input pattern generating circuit (101) for generating and outputting the input signal to the first circuit block.

With regard to claim 36, the second circuit block is a memory circuit block (by given the broadest reasonable interpretation; the circuit block 408 is a memory circuit block because it has a function of storing a signal).

## Allowable Subject Matter

4. Claims 3, 6-35, 37 and 38 are allowed.

The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 1), as recited in claim 3, having specific structural limitation such as the line (DAs) comprises a plurality of parallel lines (DA1, DA2 in instant Fig. 3), and each of the first and second circuit blocks (11 and 12 in instant Fig. 1),) includes a shift register (14, 15) connected to the plurality of lines, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

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The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 1), as recited in claim 11, having specific structural limitation such as the comparison control circuit (19) includes a control circuit (18) for outputting timing adjustment control signals (CNT) to the timing adjustment circuit block (13) when the comparison result shows that the input signal (16) and the output signal (OUT) differ from each other, the timing adjustment circuit block (13 in instant Fig. 3) includes a counter circuit (32) for receiving the timing adjustment control signals (CNT), and counting and electrically holding the number of the received timing adjustment control signals; a delay element block (31) which includes at least one delay element and in which a delay amount depending on the number of the timing adjustment control signals is added to the transmission signal; and a fuse circuit (33) which includes at least one fuse and holds the number of the timing adjustment control signals in correspondence with the number of fuses which are melted down, wherein an output signal from the counter circuit or an output signal from the fuse circuit is selectively input to the delay element block, and the fuse is melted down based on the output signal from the counter circuit, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 1), as recited in claim 6, having specific structural limitation such as the timing adjustment circuit block (13 in instant Fig. 3) includes a first holding circuit (32, 33) for holding update information (CNT) in which the propagation timing of the transmission signal is updated, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

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The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 1), as recited in claim 21, having specific structural limitation such as the timing adjustment circuit block (50 in instant Fig. 11) includes a determination period signal generating circuit (51's) for generating and outputting a determination period signal (CSH's) for determining the propagation timing of the transmission signal, based on a clock signal (CLK) for determining the propagation timing of the transmission signal; a delay element block (31's) which includes at least one delay element and in which a delay is added to the transmission signal (DA1, DA2); and a fuse circuit (33's) which includes at least one fuse, the fuse being melted down based on the determination period signal and a transmission signal which has passed through the delay element block, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 13), as recited in claim 27, having specific structural limitation such as the input pattern generating circuit (61, 62) for generating and outputting the input signal (IN2) to the first circuit block (11), wherein the input pattern generating circuit is activated when the comparison result (1) from the comparison control circuit (19) shows that the input signal and the output signal (OUT2) differ from each other, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 14), as recited in claim 32, having specific structural limitation such as the comparison control circuit (19) includes a control circuit (18) for outputting timing adjustment control signals (CNT) to the timing adjustment circuit block (13) when the comparison result

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shows that the input signal (IN2) and the output signal (OUT2) differ from each other, the timing adjustment circuit block (70 in instant Fig. 15) includes a counter circuit (32) for receiving the timing adjustment control signals, and counting and electrically holding the number of the received timing adjustment control signals; a delay element block (31) which includes at least one delay element and in which a delay amount depending on the number of the timing adjustment control signals is added to the transmission signal; and a nonvolatile memory circuit (71), wherein, an output signal from the counter circuit or an output signal from the nonvolatile memory circuit is selectively input to the delay element block, and the number of the timing adjustment control signals is written into the nonvolatile memory circuit based on the output signal from the counter circuit, and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a semiconductor device (10 in instant Fig. 7), as recited in claim 37, having specific structural limitation such as the output timing changing circuit (43, 44 in instant Fig. 8) for changing the timing of outputting (DOUTD) an output signal (DOUT) from the memory circuit block in synchronization with a change of the propagation timing (42) of a clock signal (CLK to CLKD) for determining the propagation timing of the transmission signal (DAs), and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

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### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HLN 77 / C February 18, 2006

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